

Translation

PATENT COOPERATION TREATY  
PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

|  |  |  |
|--|--|--|
| Applicant's or agent's file reference<br><b>B14275.3JCI</b>                  | FOR FURTHER ACTION   | See Form PCT/IPEA/416  |
| International application No.<br><b>PCT/FR2004/050138</b>                    | International filing date ( <i>day/month/year</i> )<br><b>01.04.2004</b> | Priority date ( <i>day/month/year</i> )<br><b>04.04.2003</b> |
| International Patent Classification (IPC) or national classification and IPC |  |  |
| Applicant<br><b>COMMISSARIAT A L'ENERGIE ATOMIQUE</b>                        |  |  |

|   |
|---|
| <p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>2</u> sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p> |
|---|

|   |                                   |
|---|-----------------------------------|
| Date of submission of the demand        | Date of completion of this report |
| Name and mailing address of the IPEA/EP | Authorized officer                |
| Facsimile No.                           | Telephone No.                     |

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.:

PCT/FR2004/050138

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- international search (Rule 12.3 and 23.1(b))
  - publication of the international application (Rule 12.4)
  - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):
- the international application as originally filed/furnished  
 the description:  
 pages 1-7 as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- the claims:  
 nos. \_\_\_\_\_ as originally filed/furnished  
 nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19  
10.02.2005 with letter  
 nos.\* 1-5 received by this Authority on of 04.02.2005  
 nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- the drawings:  
 sheets 1/2-2/2 as originally filed/furnished  
 sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3.  The amendments have resulted in the cancellation of:
- the description, pages \_\_\_\_\_
  - the claims, nos. \_\_\_\_\_
  - the drawings, sheets/figs \_\_\_\_\_
  - the sequence listing (*specify*): \_\_\_\_\_
  - any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- the description, pages \_\_\_\_\_
  - the claims, nos. \_\_\_\_\_
  - the drawings, sheets/figs \_\_\_\_\_
  - the sequence listing (*specify*): \_\_\_\_\_
  - any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

|  |
|--|
| International application No.<br>PCT/FR2004/050138 |
|--|

|           |   |
|-----------|---|
| Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
|-----------|---|

## 1. Statement

|                               |        |     |     |
|-------------------------------|--------|-----|-----|
| Novelty (N)                   | Claims | 1-5 | YES |
|                               | Claims |     | NO  |
| Inventive step (IS)           | Claims | 1-5 | YES |
|                               | Claims |     | NO  |
| Industrial applicability (IA) | Claims | 1-5 | YES |
|                               | Claims |     | NO  |

## 2. Citations and explanations (Rule 70.7)

## 1. Reference is made to the following document:

**FR-A-2 809 047 (COMMISSARIAT ENERGIE ATOMIQUE)**

23 November 2001 (2001-11-23).

## 2. Independent claims 1 and 4

## 2.1 Independent claim 1

Document **FR-A-2 809 047**, which is considered to be the prior art closest to the subject matter of claim 1, describes (the references between parentheses apply to said document):

- an actuation device including at least two motors (17) that are positioned side by side (see figure 1) on a single part (1) and do not extend in a main direction of extension, and drive shafts that extend in a single direction away from said motors and in the main direction of motor extension.

It follows that the subject matter of claim 1

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**International application No.  
PCT/FR2004/050138**Box No. V** **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

differs from this known actuation device in that:

- said actuation device further includes at least two pulleys that are at least essentially coaxial, actuated by said motors and offset along the length of said drive shafts provided, in turn, with pulley-engaging portions that are also offset.

It follows that the subject matter of claim 1 is novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can therefore be considered to be that of providing a more compact actuation device.

The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)), for the following reasons:

No such arrangement of two motors and two at least essentially coaxial pulleys offset along the length of drive shafts, which have, in turn, pulley-engaging portions that are also offset so that the actuation device is more compact, is described or obvious from the available prior art.

**2.2 Independent claim 4**

Independent claim 4 defines an articulated arm

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.  
PCT/FR2004/050138

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

including an actuation device as per claim 1. As a result, claim 4 fulfils the PCT requirements of novelty and inventive step.

**3. Dependent claims 3 and 5**

Claims 3 and 5 are dependent on claims 1 and 4, respectively. As such, said claims therefore also fulfil the PCT requirements of novelty and inventive step.